



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No: CTCE/BBMP/W.No.12/IC/CSR-04/025b/CEMENT/2016-17

Date: 30.04.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* AGENCY	:	M/s. Inchara Constructions, # 60, 4th Cross, Nandi Nagara, Hesaraghatta Main Road, Chikkabanavara, Bangalore - 90.
* NAME OF THE WORK	:	Repairs to culverts and drains in Ward No. 12, Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/SSD/PR/QC/30/2016-17 Dated: 28.04.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	28.04.2016
PERIOD OF TESTING	:	28.04.2016 to 30.04.2016

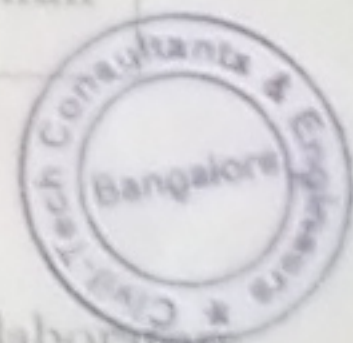
The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00%	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	425 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency : M/s. Inchara Constructions,
60, 4th Cross, Nandi Nagara, Hesarghatta Main Road, Chikkabanasavara,
Bangalore - 90.
* Name of Work : Repairs to culverts and drains in Ward No. 12, Shettyhalli Sub Division, BBMP,
Bangalore.
Reference : AEE/SSD/PR/QC/30/2016-17 Dated: 28.04.2016
Technical Reference : IS : 2386 Part 1 - 1963 RA-2007
Sample ID : Fine Aggregates
Sample Received on : 28.04.2016
Date of Testing : 30.04.2016

Total Wt. of Aggregates in grms 1000

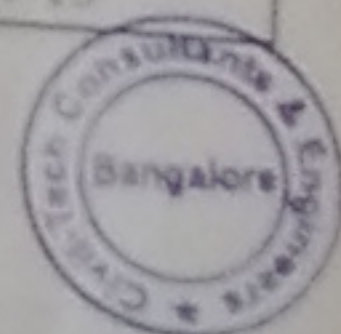
Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.35	90-100	90-100	90-100	95-100
2.36	77.55	60-95	75-100	85-100	95-100
1.18	56.35	30-70	55-90	75-100	90-100
600 Micron	36.61	15-34	35-59	60-79	80-100
300 Micron	17.64	5-20	8-30	12-40	15-50
150 Micron	6.79	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Lab No: CTCE/BBMP/W No.12/IC/CSR-04/025b/AGG/GR/2016-17

30.04.2016

TEST REPORT ON COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency : M/s. Inchara Constructions,
60, 4th Cross, Nandi Nagara, Hesaraghatta Main Road, Chikkabanavara,
Bangalore - 90.
* Name of Work : Repairs to culverts and drains in Ward No. 12, Shettyhalli Sub Division,
BBMP, Bangalore.
Reference : AEE/SSD/PR/QC/30/2016-17 Dated: 28.04.2016
Technical Reference : IS : 2386 Part 1 -1963 RA-2007
Sample ID : Coarse Aggregates (40mm)
Sample Received on : 28.04.2016
Date of Testing : 30.04.2016



Total Wt. of Aggregates in gms= 7000

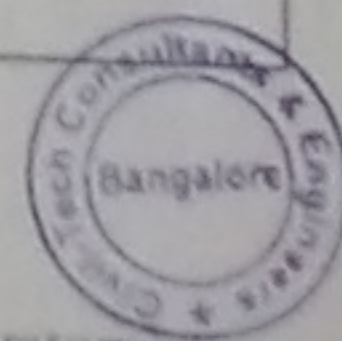
Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	
63	100		100
40	96.19	95-100	85-100
20	35.69	30-70	0-20
10	15.89	10-35	0-5
4.75	2.21	0-5	

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No. CTCE/BBMP/W No 12/IC /STEEL/2016-17

15.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : M/s. Inchara Constructions,
60, 4th Cross, Nandi Nagara, Hesaraghatta Main Road, Chilkabaniavara, Bangalore - 90.

Name of the Work : Repairs to culverts and drains in Ward No. 12, Shettyhalli Sub Division, BBMP, Bangalore.

Reference : AEE/SSD/PR/QC/30/2015-16 Dated: 28.04.2016

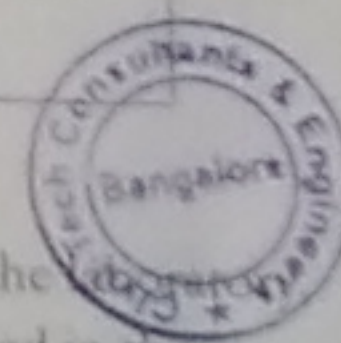
Date of Test : 15.05.2016

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	12	0.89	516	559	13.35	O.K	O.K

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Job No. CTCE/BBMP/W.No.12/IC/CSR-04/025b/CUBE/2016-17

12.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : M/s. Inchara Constructions,
60, 4th Cross, Nandi Nagara, Hesaraghatta Main Road, Chikkabanavara,
Bangalore - 90.

* Name of the work : Repairs to culverts and drains in Ward No. 12, Shettyhalli Sub Division,
BBMP, Bangalore.

Reference : AEE/SSD/PR/QC/30/2016-17 Dated: 28.04.2016

* Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₁₅

Compressive Strength as on : 28th day

Sample Received on : 12.06.2016



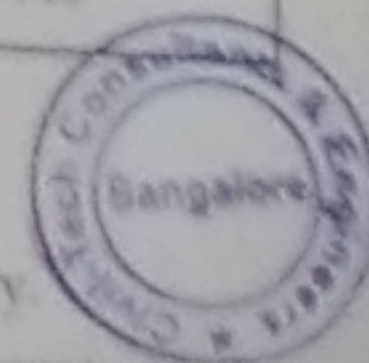
SL.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	15.05.2016	12.06.2016	8.125	363.8	16.17
2	15.05.2016	12.06.2016	8.219	378.9	16.84
3	15.05.2016	12.06.2016	8.354	393.5	17.49

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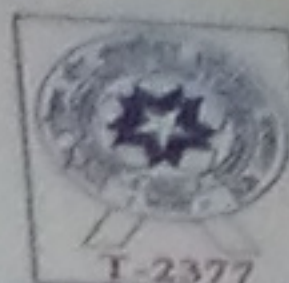




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Job No. CTCE/BBMP/W No.12/IC/CSR-04/025b/CUBE/2016-17

12.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : M/s. Inchara Constructions,
60, 4th Cross, Nandi Nagara, Hesaraghatta Main Road, Chikkabanavara,
Bangalore - 90.

* Name of the work : Repairs to culverts and drains in Ward No. 12, Shettyhalli Sub Division,
BBMP, Bangalore.

Reference : AEE/SSD/PR/QC/30/2016-17 Dated: 28.04.2016

* Sample ID : Culvert Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 12.06.2016

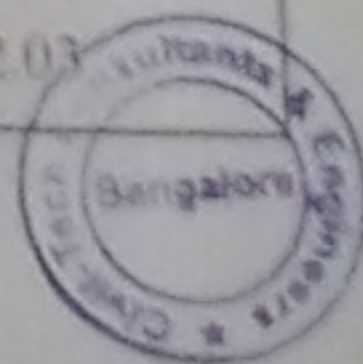


SLNo.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	15.05.2016	12.06.2016	8.168	480.4	21.35
2	15.05.2016	12.06.2016	8.323	510.5	22.69
3	15.05.2016	12.06.2016	8.238	495.6	22.03

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